

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2024 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

GEOLOGY

TIME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MCQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

- (ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.
- (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.
- (iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
- (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
- (vi) Extra attempt of any question or any part of the attempted question will not be considered.



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PART-I (MCQs) : MAXIMUM 30 MINUTES

(PART-I MCQs) MAXIMUM MARKS: 20
(PART-II) MAXIMUM MARKS: 80

NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back

(ii) Overwriting/cutting of the options/answers will not be given credit.
(iii) There is no negative marking. All MCQs must be attempted. after 30 minutes.

BART-I (MCQs)(COMPULSORY)

		PARI-LUS	The second second					
01	(i) Select the best option/ans Answers given anywhere else	wer and fill in the	Appropriate	Box on the OM	IR Ansv	ver Sheet.(20x1=20		
GD	Answers given anywhere cise	C. C. L. L. C.						
	The maturity of a rock is	a measure of its		in terms of hydro	carbon	generation.		
1.	A CONTRACT C	1137 1 64111/6441	EAL W.	(C) State		(D) Pressure		
-	(A) Density Oil derived from coal, oil	shales or tar sa	nds is called	1:				
2,	CAR STATEMENT COMP	(B) Blomass		(C) Syn-crude		(D) None of these		
3,	Which of the following re	ock types would	most likely	be the best oil rese	rvoir?			
	(A) Granite	(B) Shale		(C) Sandstone		(D) Salt		
4.	A trap formed by varying permeability within the layers of rocks is a:							
-		(B) Angular t		(C) Structural	rap	(D) Physical trap		
5.	The process of sea rising							
2.	(A) Weathering	(B) Regressio		(C) Transgressi	on	(D) Erosion		
	Energy resources derive							
6.		(B) Biomass		(C) Fossil Fuel		(D) All of these		
	(A) Geothermal energy	Contract of the Contract of th				(2)		
7.	Which shape of earth is		phic Coordi	nate System?		(D) Geoid		
	(A) Ellipsoid	(B) Circle	100	(C) Flat plane		(D) Geora		
8.	In case of R.F. the denor	ninator of the fr	action show:	s the:		(D) Number		
	(A) Map Distance	(B) Ground	distance	(C) Scale		(D) Number		
9.	Latitudes and longitudes	refer to:	Accordance .	(C) Topology		(D) Projection		
	(A) Relative location	(B) Absolute	location	(C) ropology		(-)		
10.	Quartzite is metamorph	(B) Limeston		(C) Both (A) &	(B)	(D) Sandstone		
11.	(A) Shale A sedimentary rock com	posed of rounde	d gravel is c	alled a:				
	(A) Boulder	(B) Cobble		(C) Breccia		(D) Conglomerate		
12.	Black coloured soil indic		f:	STATE OF THE PARTY				
	(A) Sandstone	(B) Iron cont	ent	 (C) Clay content 	t ((D) Organic content		
13.	Which of the following process shows chemical weathering?							
	(A) Spheroidal weathering			(B) Hydrolysis and hydration				
	(C) Thermal expansion (D) Frost heavi			g				
14.	The sea breeze blows during: (A) Day from land to sea (B) Day from s			ea to lan	d.			
	(A) Day from land to sea (C) Night from land to sea			(D) Night from sea to land				
15.	The reason behind the d	rifting away of	ontinents is	:				
	(A) Volcanic eruptions (B) Tectonic activi	ities (C) Fol	ding and faulting	(D) Ch	ange in landform		
16.	Which of the following p	process are invol	ved in the fo	rmation of sedimen	itary ro	cks?		
	(A) Fractional crystallizati	ion (B) Lithific	ation (C) Weathering	(D) M	ountain building		
17.	The study of movement i	nside earth is ca	lled:		(m) m:			
	(A) Plate Tectonics	(B) Seismol	ogy (C) Geodesy	(D) Str	ructure Geology		
18.	Ox-bow lakes are formed	I due to:	ring (C	Proplem	(D) El			
	(A) Flooding (B A stretch of land surroun) Intense meande	all sides is) Erosion	(D) FI	ow of water		
19.	(A) An island	(B) A strait	(C) A peninsula	(D) A	hav		
20.	Core of the Earth is the:	(D) A struct	(0,	, re permisura	(D) A	Jay		
20.		Outer zone (C) Atmosph	ere over the layers	(D)) (iddle zone		
	(D) Innermost layer (D	I CHICI ZUIIC	- COLLEGE STATE	or cover the lavers		ddie Zone		

SECTION-A

- Q1. What is the difference between fracture and joints? Discuss importance of fracture and joint analysis.
- Q2. Discuss in detail the concept and terminology of faults. Discuss criteria for identification of faults.
- Q3. What are igneous rocks? Give in short, the mineralogical and textural classification of igneous rocks.
- **Q4.** Write briefly an overview of the major tectonics features of Pakistan.

SECTION-B

- Q5. Describe characteristic features for occurrence of Petroleum System in any Basin.
- Q6. Write in detail types, occurrence and uses of economic mineral deposits of Punjab.
- Q7. What is a landslide? Explain the types of slides and the factors that trigger landslides.